

COMPETINDO EM UM MUNDO
DIRIGIDO...

PELAS CIÊNCIAS

Não o tempo fácil...



Uma solução...



Fuente: Genio anonimo del Internet













MICHAEL LONG

TRUCK & CRANE HIRE

EC02012





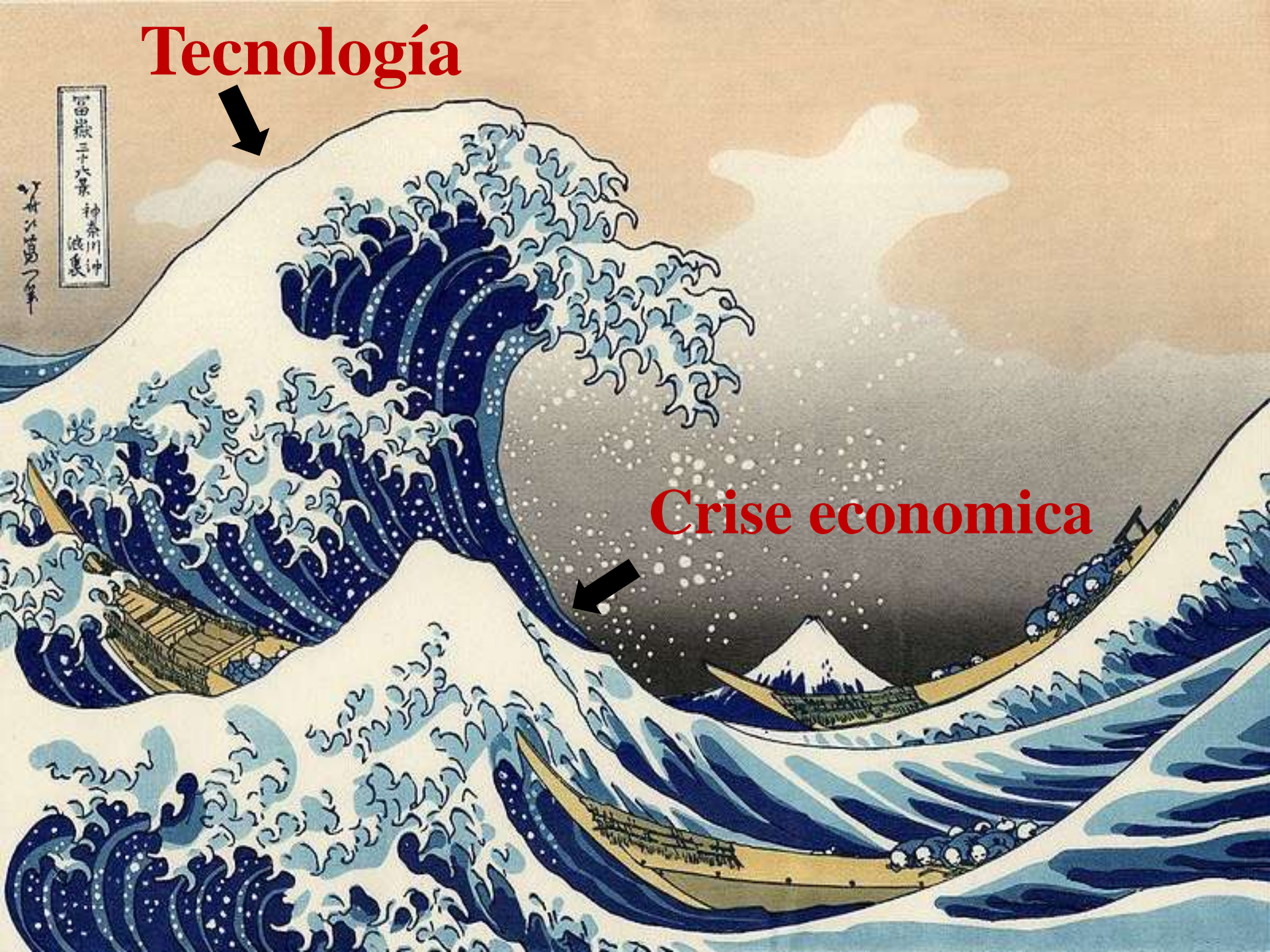


Uma solução melhor...

Tecnología



Crise economica



富嶽三十六景 神奈川沖
波裏

江村の漁師

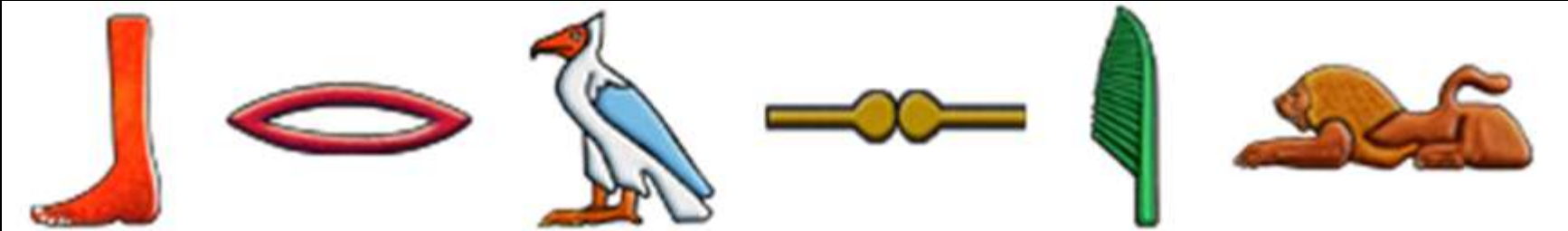
Três Ideias Simples...

#1 A Riqueza Provém de Código

2 O Código Evolui

3 Movimento do Código digital para o Código da vida





A,B,C...

01101100011011110111011001100101

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5 Mb

1956

IBM Ramac

QDP-300

The peace of mind computer.

Introducing the QDP-300, a powerful new computer that gives you the peace of mind you need to get your work done. The QDP-300 is a true personal computer that gives you the power of a mainframe and the ease of use of a personal computer. It's the only computer that gives you the power of a mainframe and the ease of use of a personal computer. It's the only computer that gives you the power of a mainframe and the ease of use of a personal computer.

More Flexibility - More expandability to fit your needs. Add a hard disk drive for \$100 or a printer for \$50. Or add a terminal for \$100. The QDP-300 is a true personal computer that gives you the power of a mainframe and the ease of use of a personal computer.

More Speed - Faster "real time" processing. The QDP-300 has a 72KHz processor that gives you the power of a mainframe and the ease of use of a personal computer.

More Power - A powerful high level language. The QDP-300 has a high level language that gives you the power of a mainframe and the ease of use of a personal computer.

More Storage - More expandability to fit your needs. Add a hard disk drive for \$100 or a printer for \$50. Or add a terminal for \$100. The QDP-300 is a true personal computer that gives you the power of a mainframe and the ease of use of a personal computer.




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The Apple II is the most powerful personal computer ever. It's the only computer that gives you the power of a mainframe and the ease of use of a personal computer. It's the only computer that gives you the power of a mainframe and the ease of use of a personal computer.

Right away, you can see a difference.

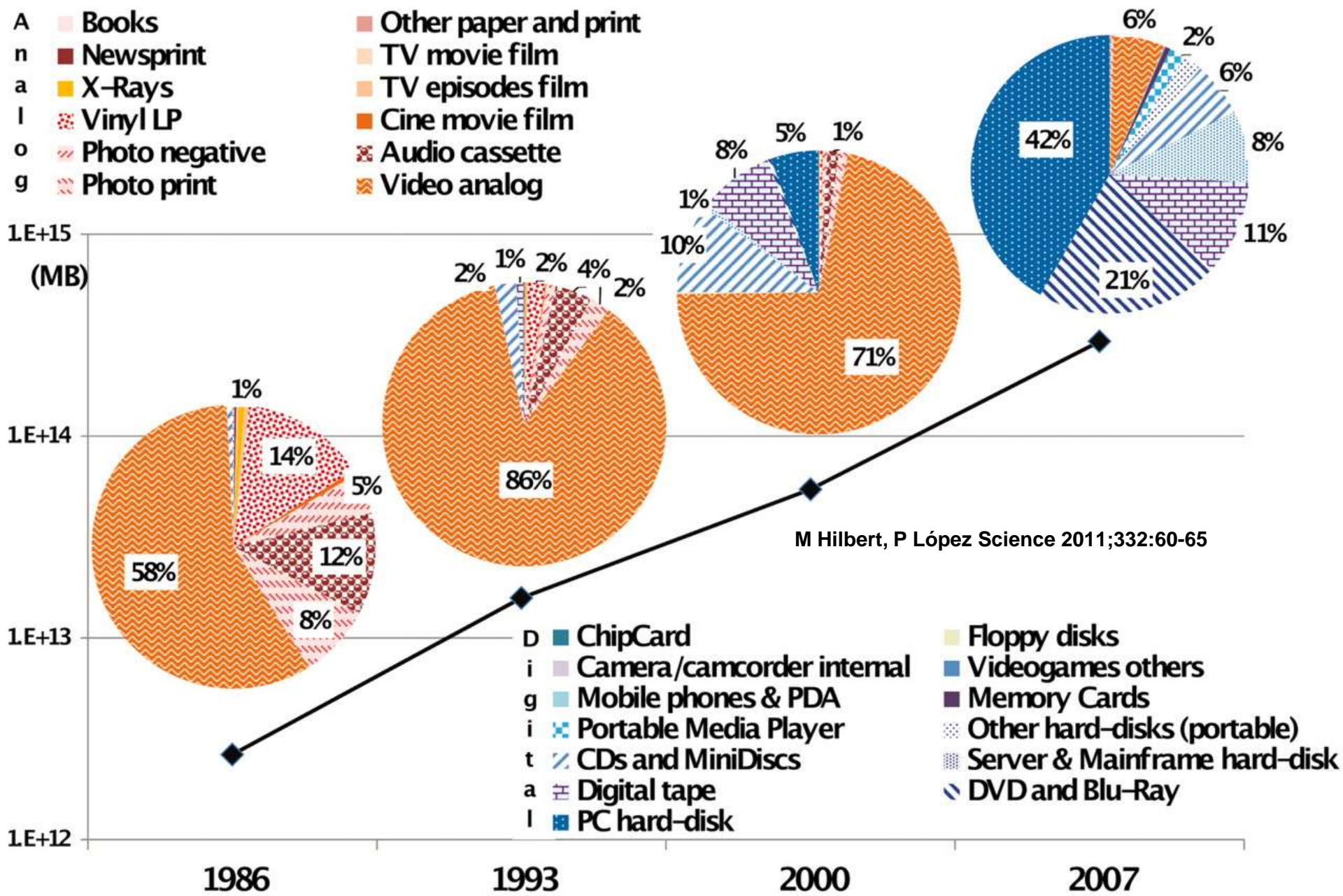


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Introducing Apple II.



Take the first step now. Check your local computer store or call 1-800-538-8600.



98 % analogue to < 6%



ASCI Red primeiro computador um trilhão de operações por segundo 1996...



a



a

Ciências da vida



Revolução
Digital



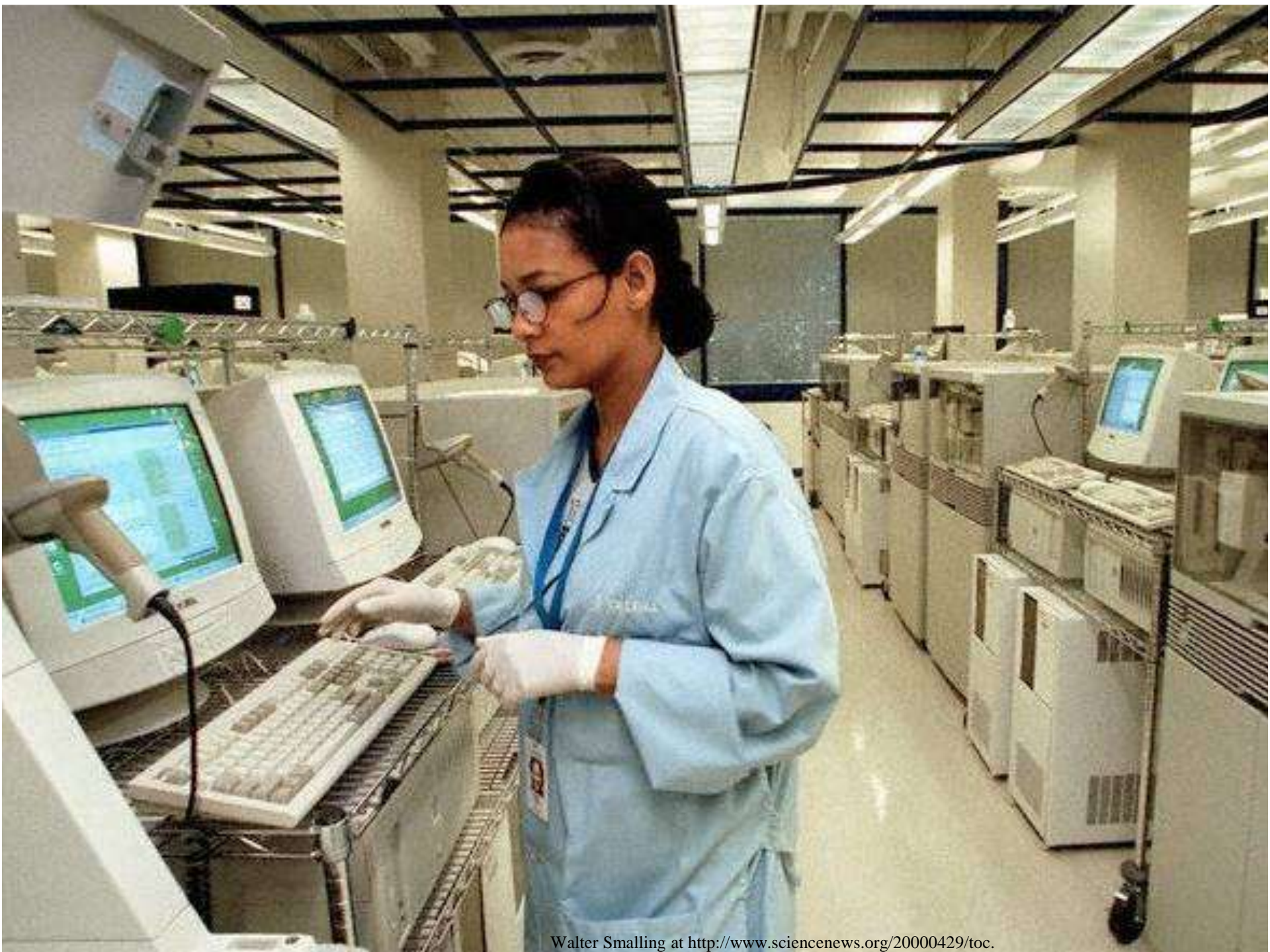
富嶽三十六景 神奈川沖
波裏

享和元年八月



Toda a vida é...

Um código

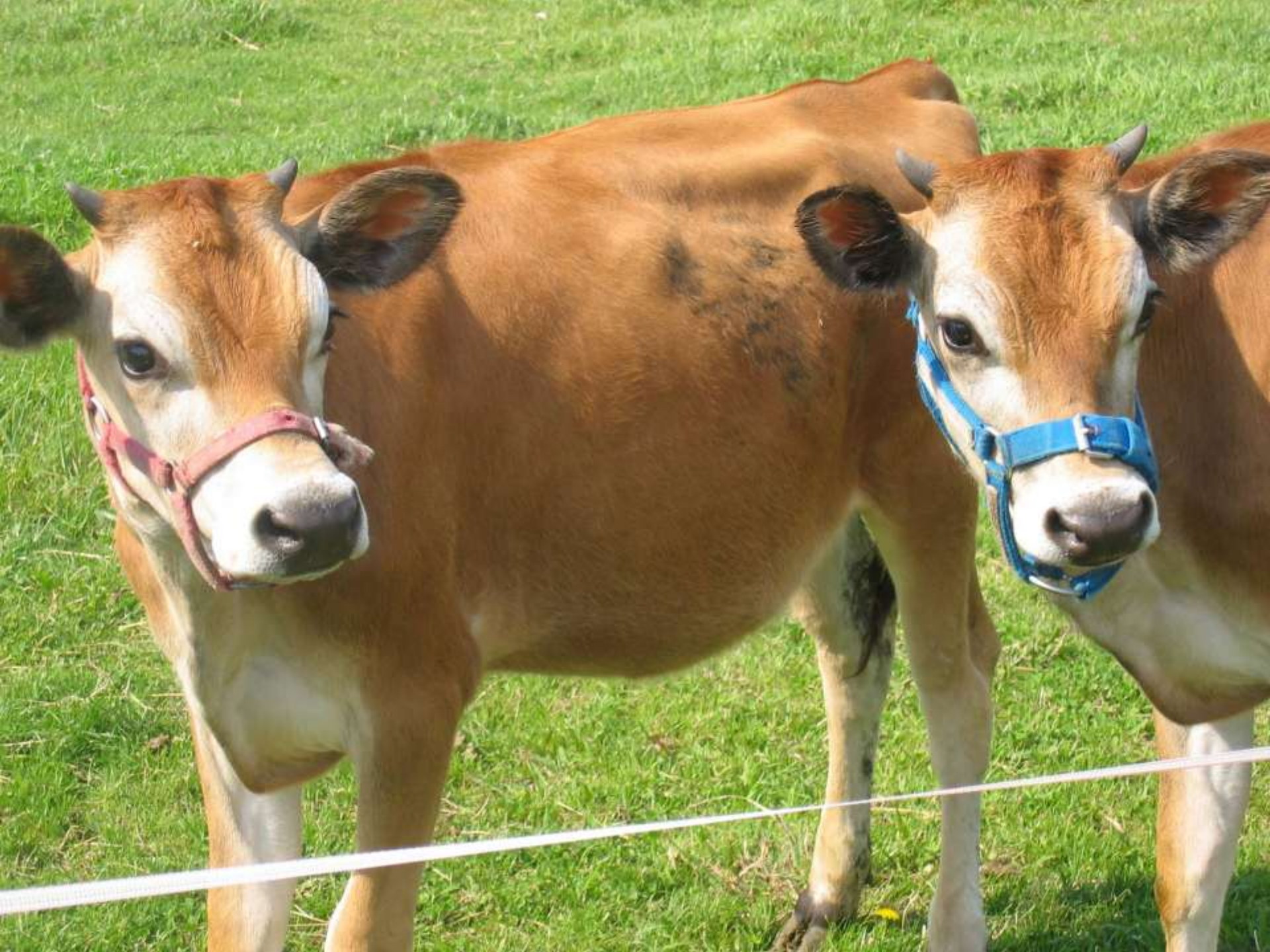






PROHIBIDO FUMAR





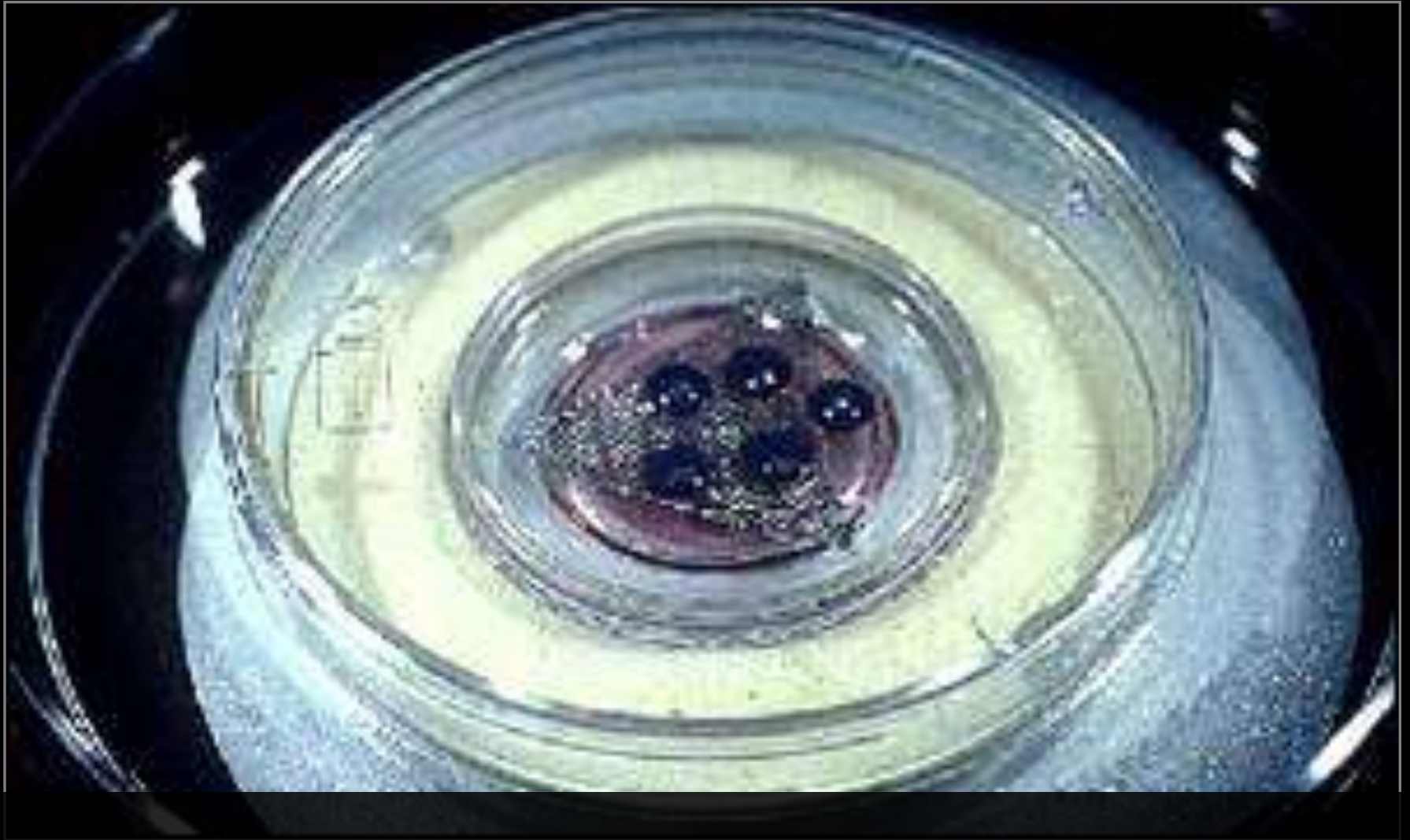






a





Dentes de Raton

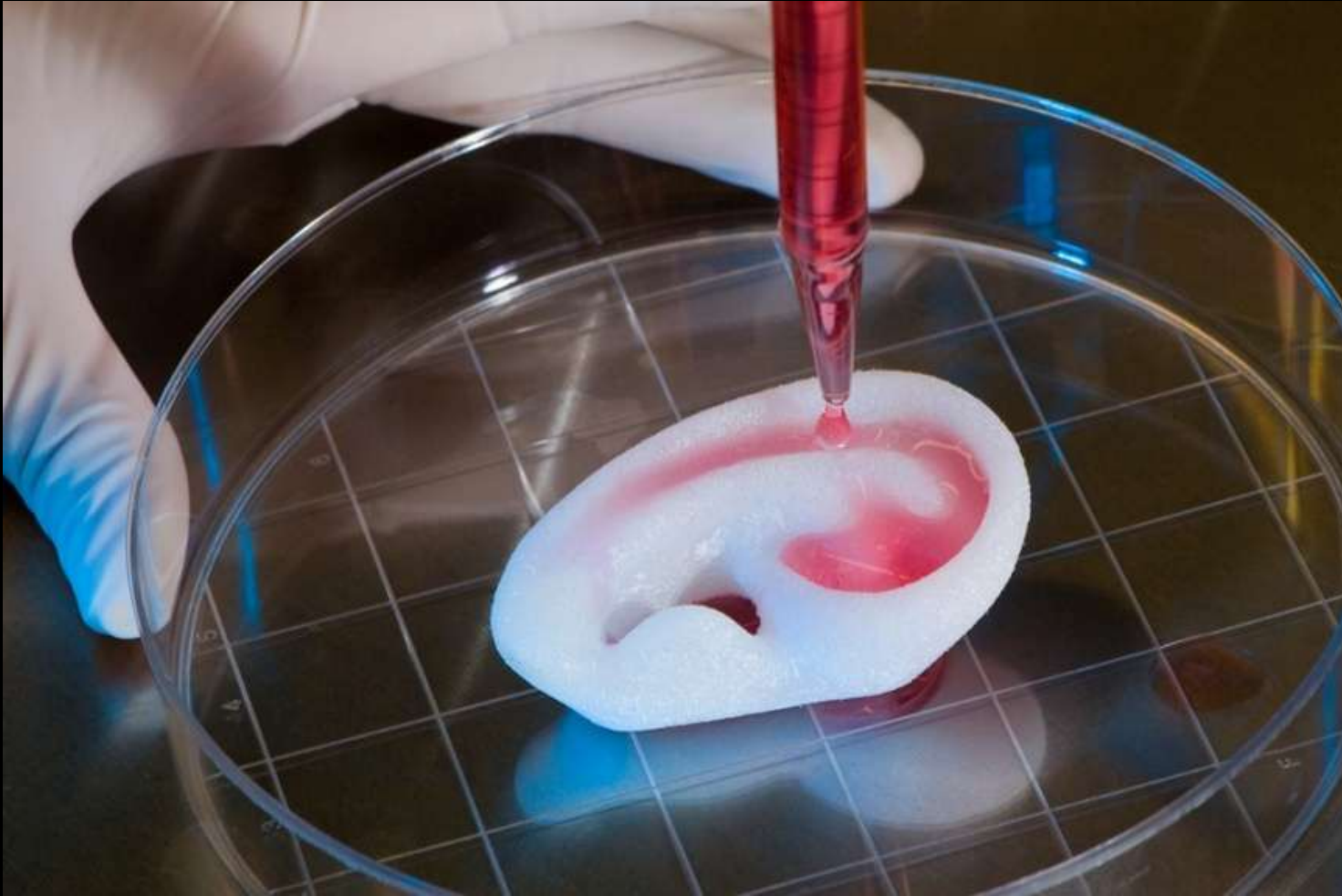
Dr. Mary MacDougall of the University of Texas Health Science Centre, San Antonio. <http://news.bbc.co.uk/1/hi/sci/tech/896134.stm>

**Conan Young, autor de uma
experiência em que dentes
cresceram...**

ao redor de um molde...

a partir de células dentárias





Novo ouvido

Anthony Atala Wake Forest Medical School

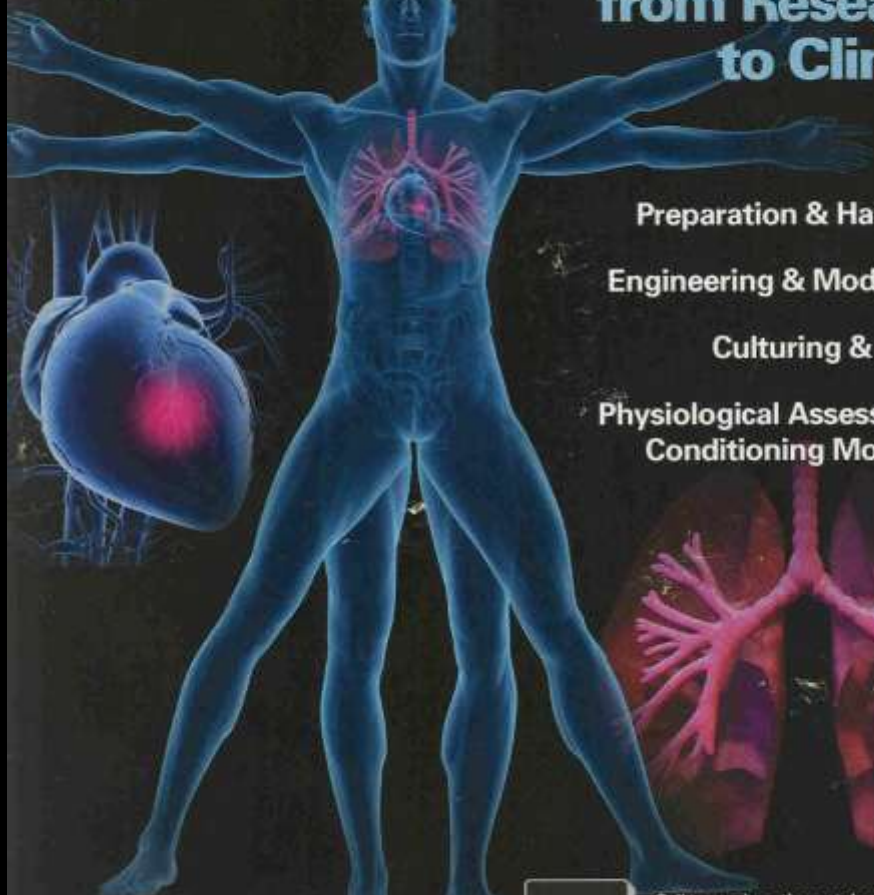


Nueva Vejiga



**Vasos sanguíneos
novos fabricados
a partir das
células da pele do
paciente**

Cytograft



advanced solutions for

Regenerative Medicine

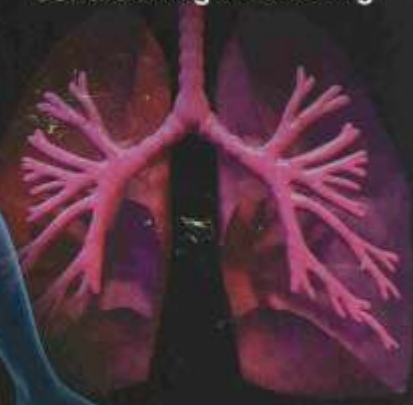
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NEW 3D Bioreactor for Hollow Organs, Bronchus, Trachea & Blood Vessels



ORGANIZER™ Series Model 100 "In Breath"

For the Development of Tissue-Engineered Hollow Organs

Benefits & Features

- Facilitates cell seeding procedures on both sides of a 3D tubular matrix, ensuring homogeneous plating
- Allow seeding and culturing of different cell types on either side of the tubular scaffold
- Enhance oxygenation of the culture medium and mass transport (oxygen, nutrients and catabolites) between the medium and the adhering cells
- Stimulates the cells with hydrodynamic stimuli, favoring the metabolic activity and the differentiation process
- Allows the achievement and maintenance of sterility and other criteria of Good Laboratory Practice (GLP), simplicity and convenience
- Permits the possibility of automation and scale-up/-out

In Breath is a rotating double-chamber bioreactor designed for cell seeding and culturing on both surfaces of a tubular matrix and includes rotary movement of the scaffold around its longitudinal axis. A polymeric culture chamber houses the biologic sample and the medium for the whole culture period. Cylindrical scaffold holders are constructed with working ends of different diameter - to house matrices of diverse dimensions - and a central portion of smaller diameter to expose the luminal surface of the matrix for cell seeding and culturing. A co-axial conduit links the inner chamber to the external environment through an appropriate interface at the chamber wall, which provides access to seed and feed the luminal surface of the construct. Secondary elements



moving with the scaffold holder induce continuous mixing of the culture medium to increase oxygenation and mass transport. The cell/matrix construct is moved by a DC motor (0-6 rpm, adjustable) separated from the culture compartments. The connection between the motion unit and the culture chamber allows the first to remain in the incubator for the whole culture period, moving the chamber independently every time it is needed (i.e. sampling, medium exchange). An external control unit regulates and monitors rotation. Autoclavability, ease of handling under sterile conditions, reliability and precision ensure the full compatibility of the device with the GLP rules (Good Laboratory Practice).

So Advanced it's Simple

Reactor container and spindle are made of Polysulphone, Teflon and 316 Stainless Steel allowing for:

- Sterilization
- Chemical inertness
- Biological compatible material
- Transparent for excellent visualization

Other Features

- Reactor has quick fit spindle allowing the easy removal of the spindle and associated tubular organ for analysis or to take apart for sterilization
- Rotational spindle assures proper oxygenation
- Spindle has inner flow channels to assure inner tissues oxygenation

Easy-To-Use-Controller

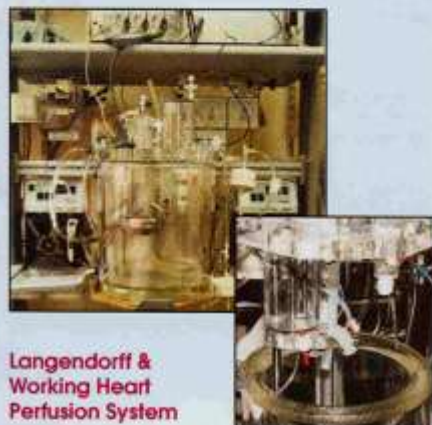
- Easily removable scaffold holder
- Chamber fits in incubation chamber with controller outside
- Offset cover allows for oxygenation of sample by non sharing ambient air contact
- Quick release and disassembly of parts makes sterilization easy

Specifications

Rotational Speed	0 - 5 RPM
Diagnostics	Positional Monitoring
Materials	Polysulphone, Teflon, 316 SS
Ventilation	CE
Power	100 - 240 VAC

Order #	Product
T3-4145	ORGANIZER™ Series Model 100

Whole Heart Decellularization/Recellularization Chamber for Regenerative Medicine



Langendorff & Working Heart Perfusion System

Langendorff Benefits & Features

- Low flow resistance and dead space volume, minimize perfusion artefacts
- Compact, does not require high water columns, suitable for hearts from hypertensive animals (perfusion pressure up to 300 mmHg is possible)
- Constant pressure or constant flow in one unit
- Drug injection pathway built directly into aortic perfusate stream
- Modular system grows with your application
- System specific electrodes and holders for precise measurements
- All electrodes, catheters etc. are placed around the heart to have easy and direct access

Applications

- Cardioplegia studies
- Heart transplantation modes
- Electrophysiology studies Monophasic Action Potential (MAP) single and multiple ECG measurements, dispersion of ventricular repolarization
- In-depth hemodynamic applications including study of cardiac flow, LVP, and pressure-volume relationships

Working Heart Benefits & Features

- Optimized atrium cannulating conditions
- Easy to switch from the Langendorff mode (LH) to the working heart mode (WH) and back.
- Temperature and oxygen loss minimal

- Short atrial fill time (low flow resistance) resulting in optimal ventricle filling
- Built-in port for insertion of a catheter transducer for left ventricular pressure or pressure-volume measurement
- Physiologic atrial and arterial pressure and flow waveforms
- Compact aortic block
 - Exclusive patented Membrane Afterload System and compliance chamber, mimic physiological cardiac afterload and avoid damage to heart valves that occurs with water column based systems
 - Integrated flow probe option for accurate real-time aortic flow measurement
- Real constant preload system
 - Physiologic atrial pressure waveform
 - No stress on mitral valve by the pump like in constant flow mode
 - Preload pressure independent on the atrial flow
 - Integrated flow probe option for accurate real-time atrial inflow measurement (cardiac output)

The IH-9 utilizes the proven architecture of our smaller IH-5 to set the standard for isolated heart perfusion in minipigs and small domestic pigs. Engineered for the increased flow produced by these species, the IH-9 offers ultimate perfusion stability and real physiological conditions for longer, more relevant recordings with fewer artifacts.

Both Langendorff and Working Heart versions allow a choice of measurement capabilities with dedicated capability packages available for specialized applications.

Perfusion of such larger hearts creates the opportunity for detailed study of cardioplegia and reperfusion after cardioplegia. With dedicated transducers, electrodes, positioners, amplifiers and software for a complete cardiac electrophysiology workstation, the IH-9 allows cardiovascular studies as well as measurement and analysis of multiple ECG and MAP signals.

Additional Options Include

- Transducers, probes and amplifiers for: real-time flow, isovolumetric LVP, temperature etc... (see section II)
- Dedicated holder for measurement of MAP-potentials and ECG
- Dedicated optional perfusion circuit for additional perfusion with eg. perfluorocarbon-emulsion and with port for Cardioplegia solution application
- Dedicated software ISOHEART for data acquisition and analysis



Metabolix



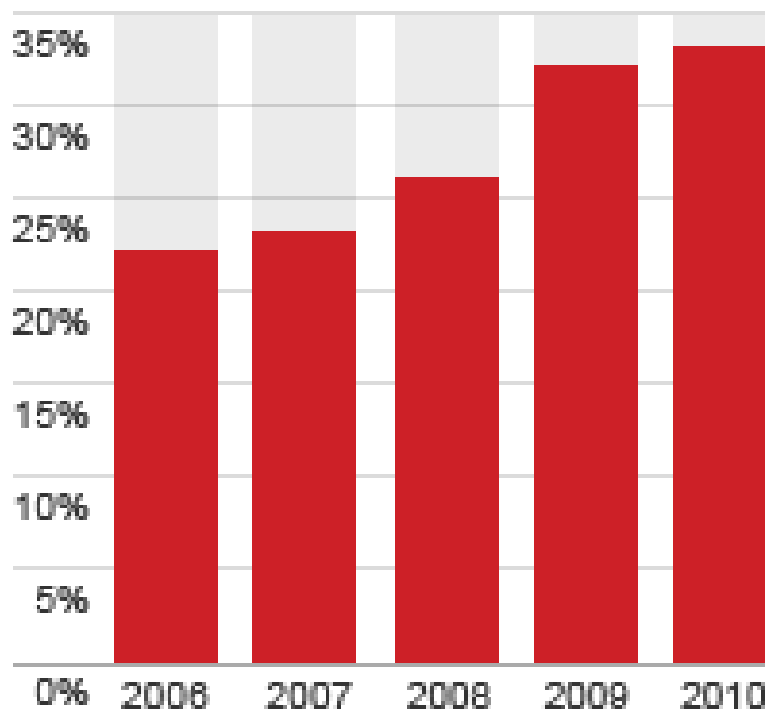
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AGRICULTURE AND NUTRITION ARE PERCENT OF DUPONT SALES



ESTIMATES

SOURCE: DEUTSCHE BANK

- ▲ Home
- ▲ Products & Markets
- ▲ Biotechnology
- ▶ Biocatalysis
 - ▶ Enzymatic processes
 - ▶ Fermentation
 - ▶ Research strategies
 - ▶ **Biocatalysis outlook**



Biocatalysis outlook

The possibilities offered by biocatalysis appear to be almost unlimited: it is presumed that in ten to fifteen years' time almost all vitamins will be produced using fermentation, biotechnology or plant biotechnology. In addition to this, almost all amino acids will be produced by means of biotechnology. Biotechnological processes will replace conventional ones in the production of a wealth of specialty chemicals.

Tracking down metabolic processes with genetic engineering



industry, the production of many water-soluble vitamins and almost all amino acids is being switched to fermentation processes. However, a lot of work remains to be done in the elucidation and optimizing of the metabolism of microorganisms.

Service

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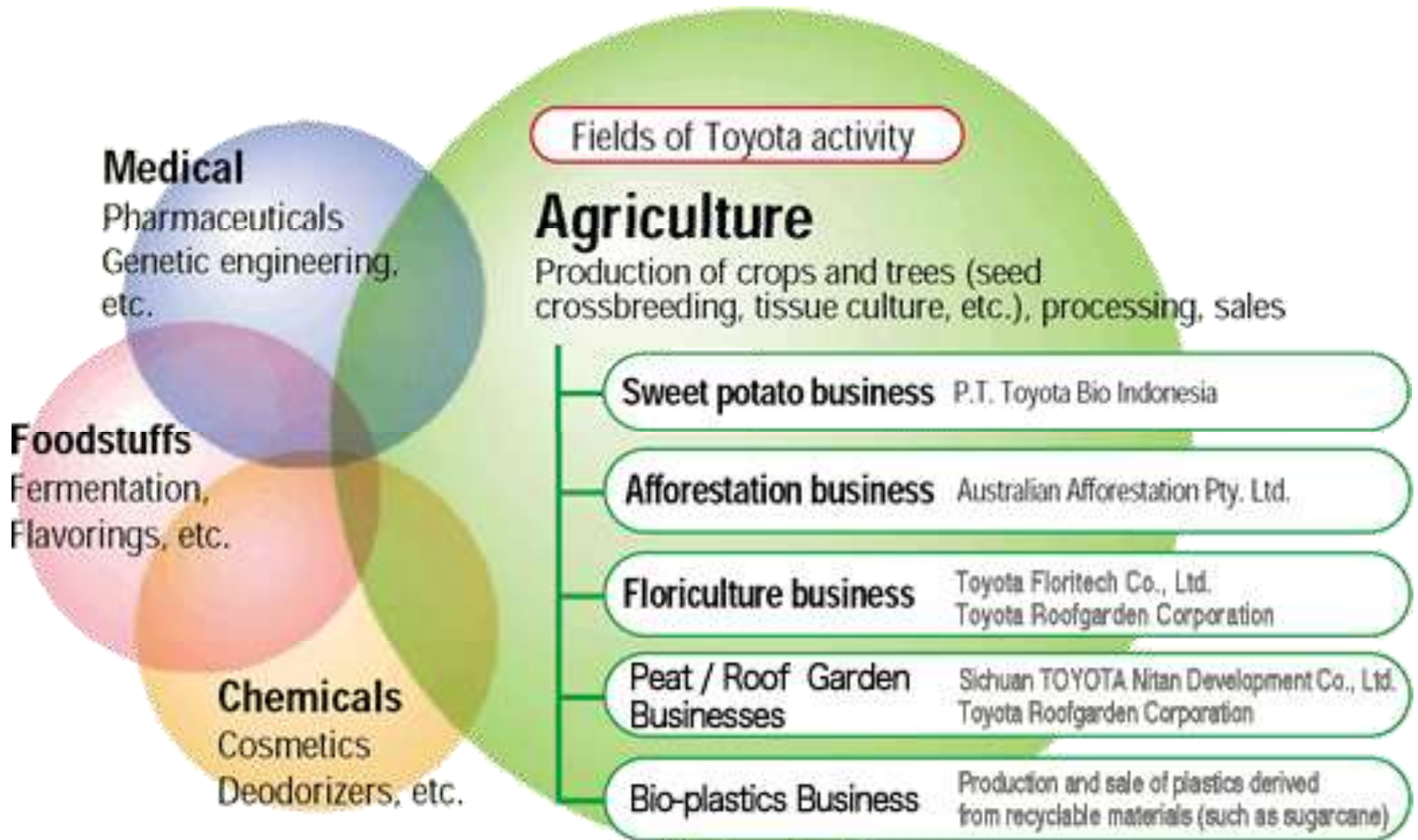
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Innovations

Toyota Biotechnology



GE Healthcare



Doctors look at your medical history. Imagine if they could look at your medical future.

At GE Healthcare, we've combined our medical systems business with Amersham plc, a leader in molecular technologies and biomolecular manufacturing systems. Together, we're creating revolutionary new ways to predict potential medical conditions before they even occur. We're helping doctors see into the future. Which will make some health problems a thing of the past.

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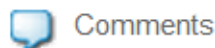


imagination at work

GE Healthcare, BGI Explore Stem Cell Genetics with a View to Drug Discovery Assays



KEYWORDS: [Assay Development](#), [BGI](#), [GE Healthcare](#), [Genetics](#), [IN Cell Analyzer](#), [Sequencing](#), [Stem Cells](#)



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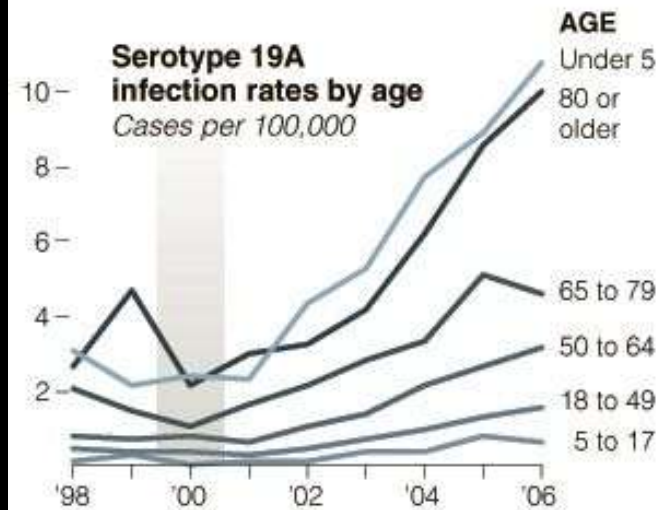
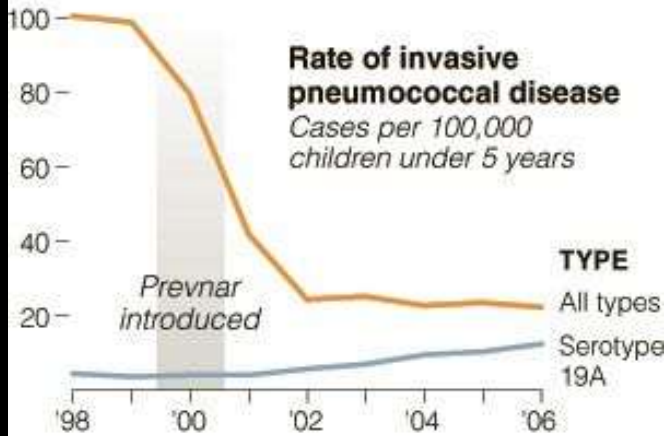
GE Healthcare and China-based **sequencing** firm **BGI** signed a multiyear stem cell science collaboration that aims to provide new insights into the genetic variation of ethnically diverse human stem cell lines. The ultimate goal is to enable the development of relevant human stem cell assays for use in drug discovery and toxicity.

Two projects will initially be undertaken. In the first BGI will carry out genome sequencing and epigenetic analysis on ethnically diverse cardiomyocytes and hepatocytes supplied by GE, to map genetic variation and determine changes that occur during stem cell differentiation. For the second project GE is providing BGI with an **IN Cell Analyzer** to allow the latter to investigate gene function by overexpressing or blocking single gene activity in a library of already sequenced cell types.

Cinco Ideias que
se tornou empresas...

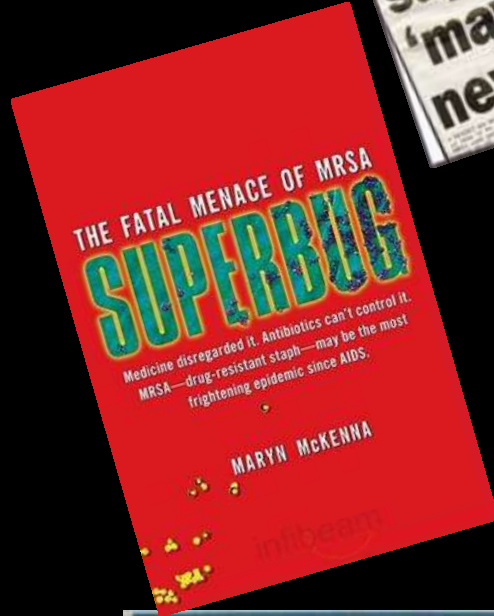
A Qualified Success

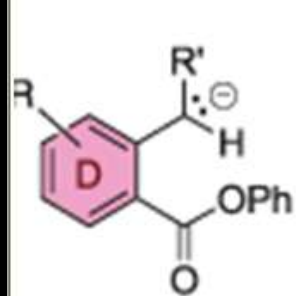
Infection rates from the pneumococcus bacteria, which can cause meningitis and pneumonia, have dropped substantially since the Prevnar vaccine was introduced in 2000. But infections from a particular type of the bacteria, Serotype 19A, have increased fourfold among young children and the elderly.



Source: Centers for Disease Control and Prevention

THE NEW YORK TIMES



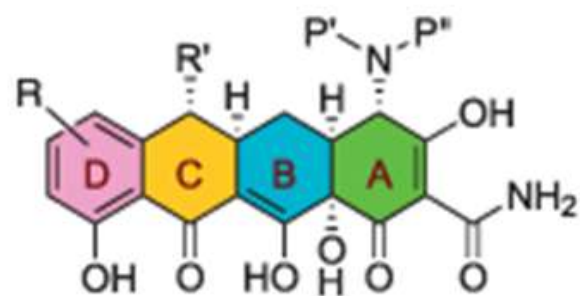


Left Hand Side



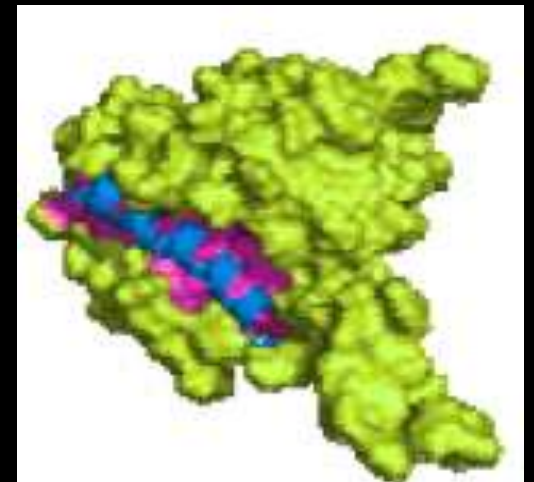
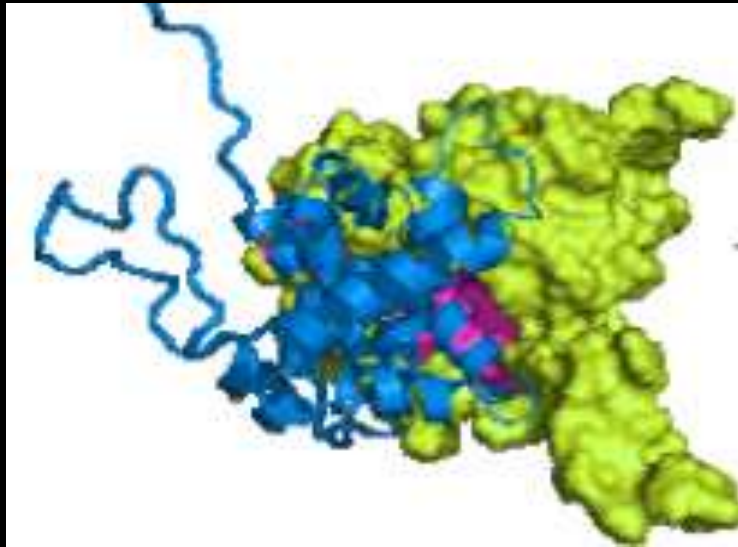
Key Enone

C-ring Annulation



Novel Classes of
Tetracycline Analogs







DEALS, BIOTECH, LIFE SCIENCES

Aileron Inks Deal with Roche, Worth Up to \$1.1B, to Develop Stapled Peptide Drugs

Gregory T. Huang 8/24/10

It's a big day for [Aileron Therapeutics](#). The Cambridge, MA-based biotech firm announced this morning it has formed a partnership with Swiss drug and diagnostics giant Roche to discover, develop, and commercialize a new class of drugs known as "stapled peptides."

Under the terms of the deal, Roche (OTCQX: [RHHBY](#)) will provide at least \$25 million in technology access fees and R&D support to Aileron. What's more, Aileron will be eligible to receive up to \$1.1 billion in milestone payments if drug candidates are developed against five targets from Roche's main therapeutic areas—oncology, virology, inflammation, metabolism, and the central nervous system. Aileron will also receive royalties on future sales for any marketed products resulting from the collaboration.

This is Aileron's first major industry collaboration—and a big step forward for the company. My colleague [Luke](#) first wrote about Aileron back in November 2008, when the startup talked about its plan to develop peptide-based drug compounds that block interactions between proteins in the body that can't be affected by conventional small-molecule chemical drugs or genetically engineered protein drugs. The



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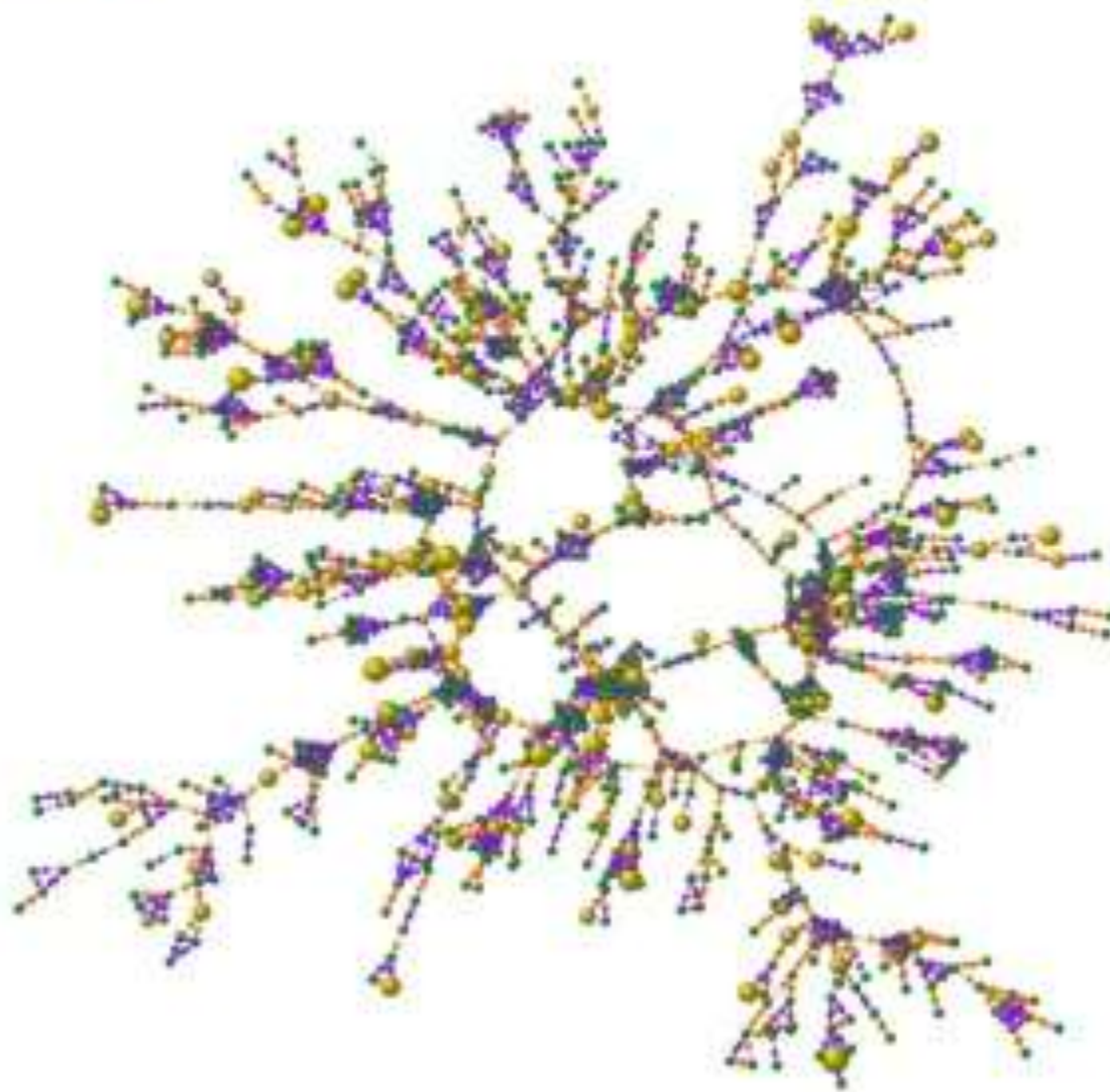
Other

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- [Aileron's New Class of Drugs Shown to Get Inside Cells to Block Prime Cancer Target](#)
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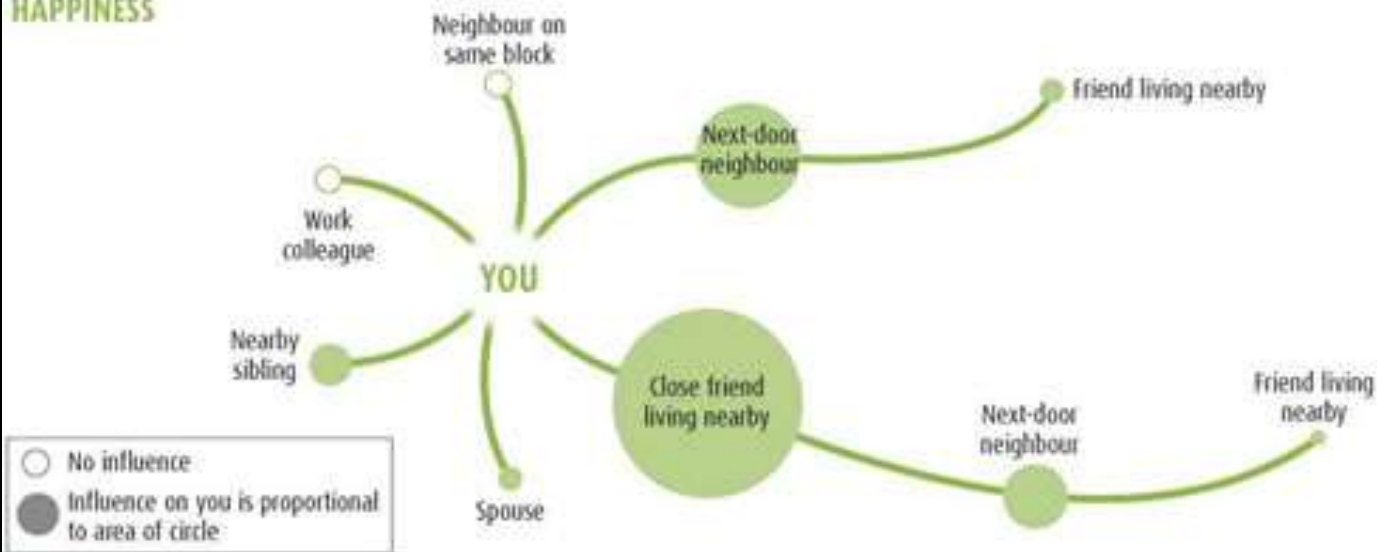
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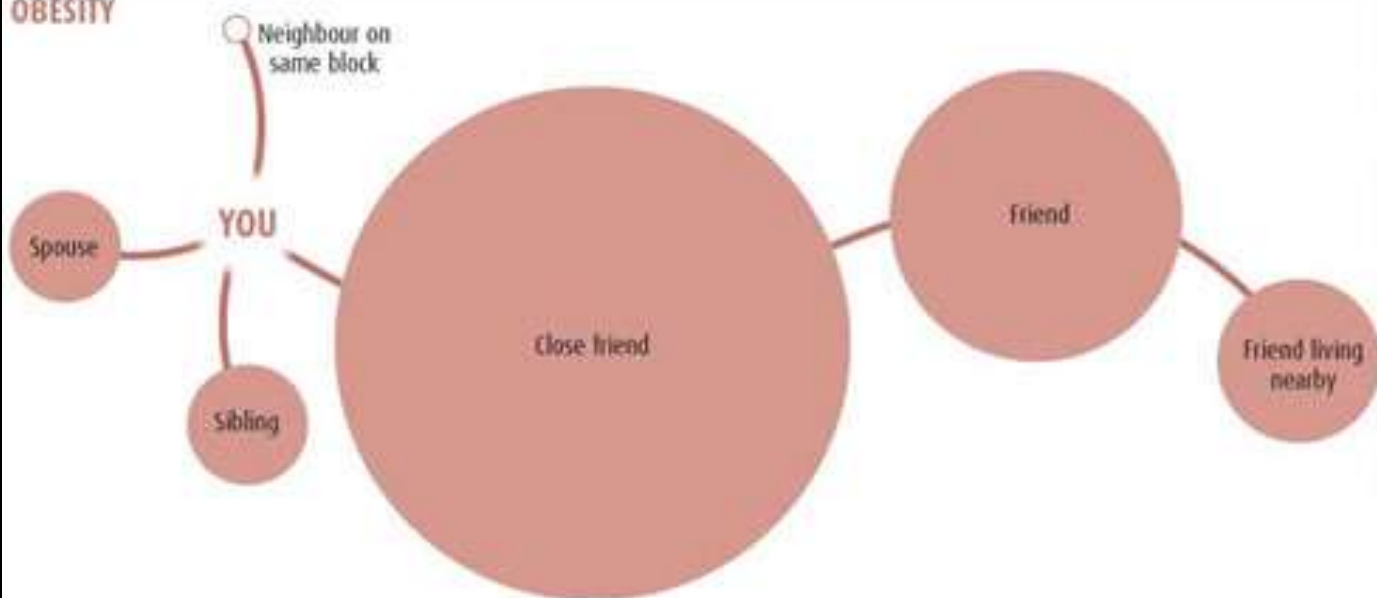
NETWORKS OF INFLUENCE

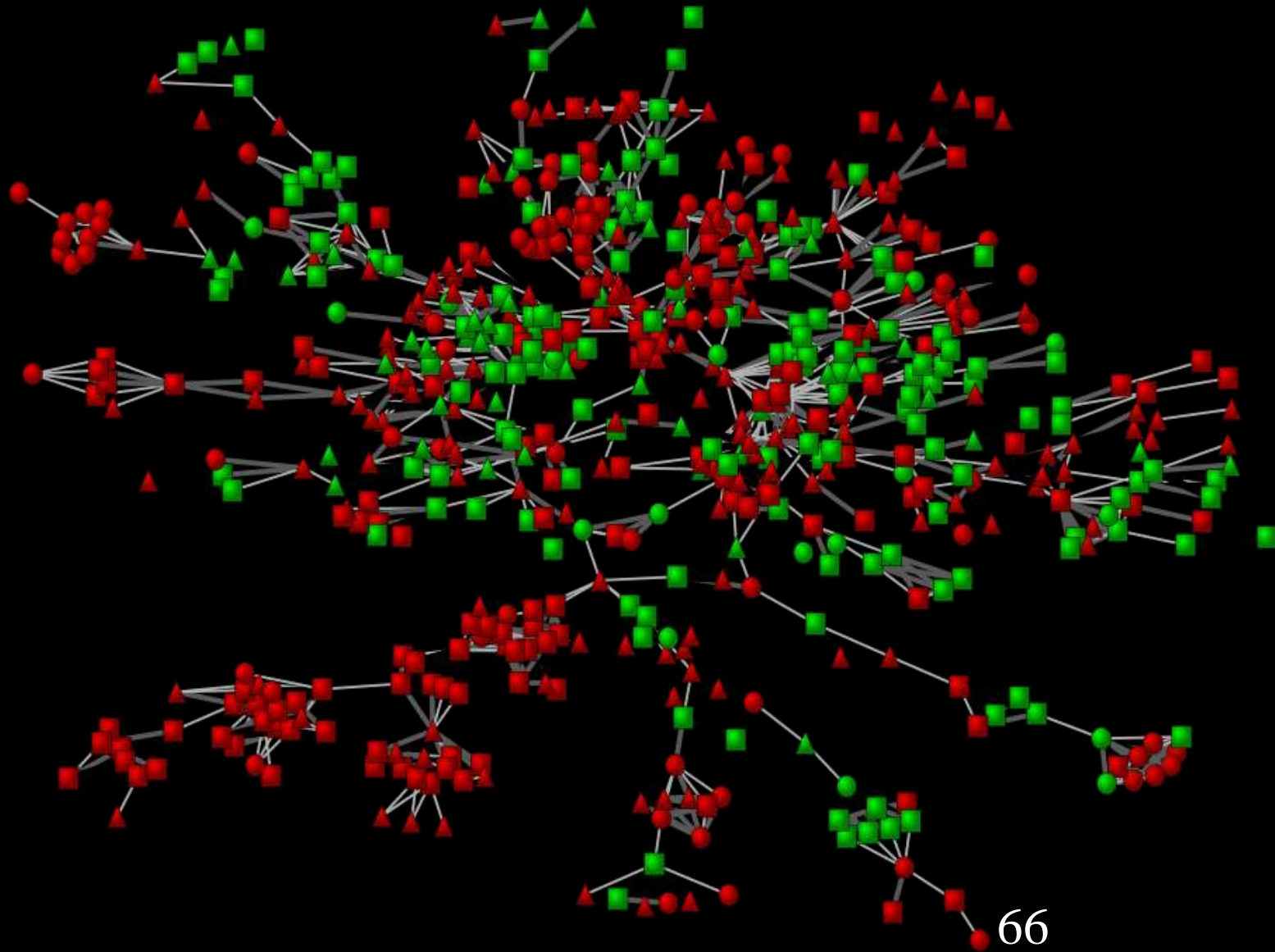
When it comes to happiness and obesity, people you have never met may have a stronger influence on your behaviour and mood than your closest relatives

HAPPINESS



OBESITY

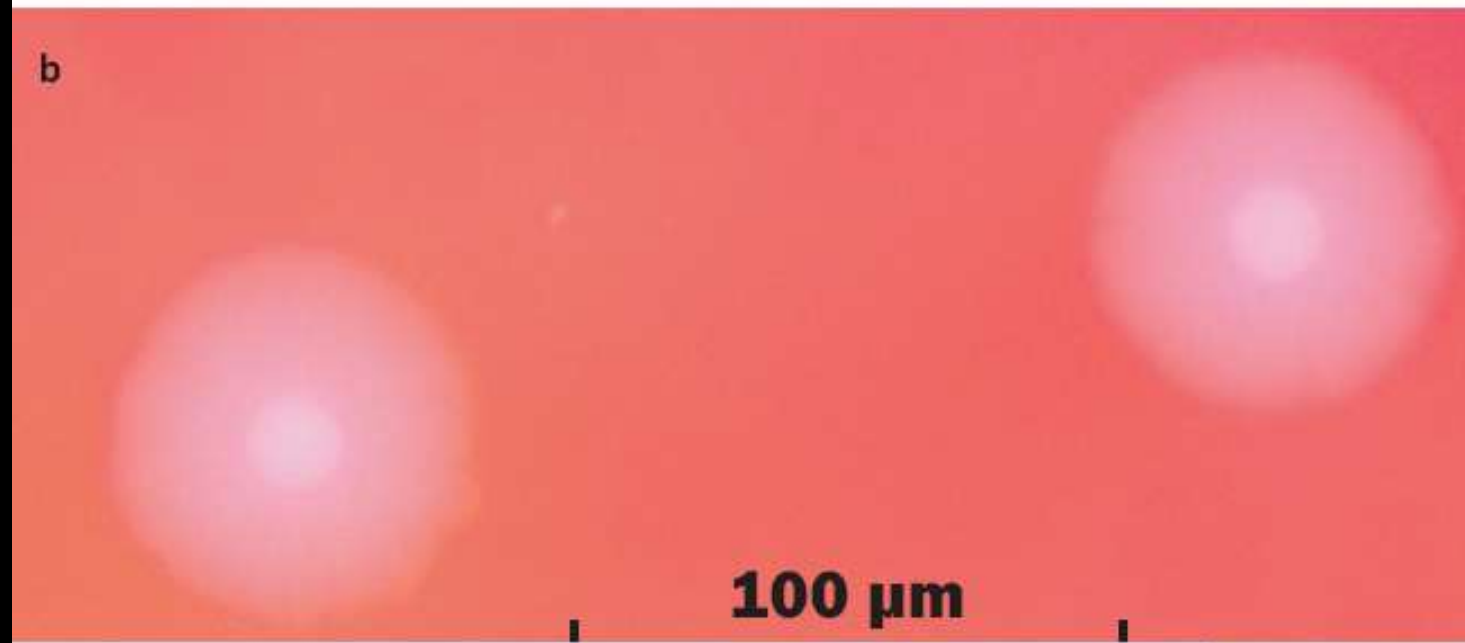
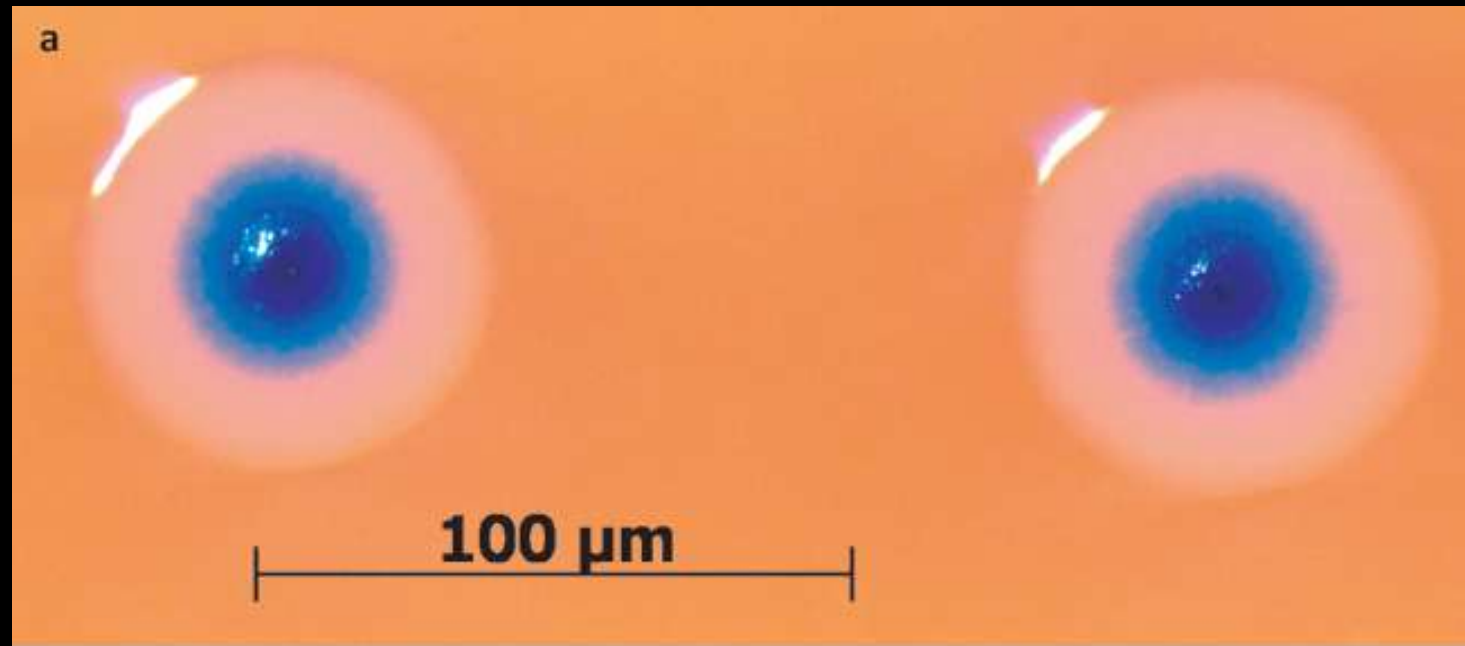






Creation of a bacterial cell controlled by a chemically synthesized genome

Daniel G. Gibson¹, John I. Glass¹, Carole Lartigue¹, Vladimir N. Noskov¹, Ray-Yuan Chuang¹, Mikkel A. Algire¹, Gwynedd A. Benders², Michael G. Montague¹, Li Ma¹, Monzia M. Moodie¹, Chuck Merryman¹, Sanjay Vashee¹, Radha Krishnakumar¹, Nacyra Assad-Garcia¹, Cynthia Andrews-Pfannkoch¹, Evgeniya A. Denisova¹, Lei Young¹, Zhi-Qing Qi¹, Thomas H. Segall-Shapiro¹, Christopher H. Calvey¹, Prashanth P. Parmar, Clyde A. Hutchison III², Hamilton O. Smith², and J. Craig Venter^{1,2*}



INSIDE THIS WEEK: A 16-PAGE SPECIAL REPORT ON WATER

The Economist

MAY 22ND-28TH 2010

Economist.com

The battle of Bangkok
America's surprising primaries
Does Facebook know too much?
Labour after Gordon Brown
How to plug an oil well

And man made life



The first artificial organism and its consequences



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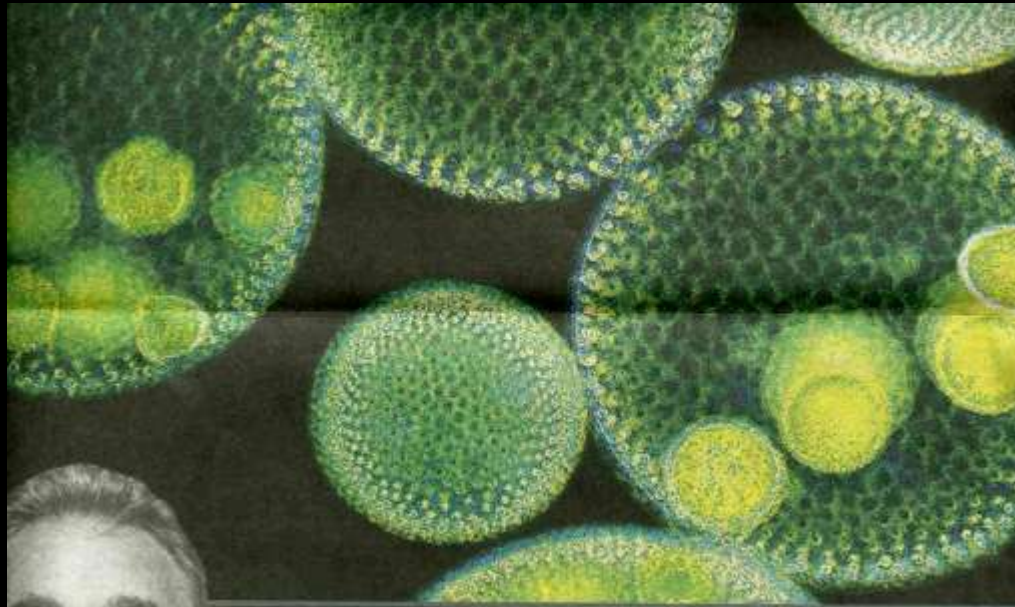
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**Petróleo =
Luz Solar
Concentrada
Em matéria orgânica.**



Algae-powered cars: Science fiction or science?

Say algae, and most people think of those unpleasant green organisms found in swimming pools and fish tanks. But to the scientists and engineers of ExxonMobil, algae conjure something far more appealing: Opportunity. Why? Because algae can create renewable energy while absorbing CO₂.

The energy from algae might someday produce biofuels that are compatible with those made from conventional crude oil. That's why ExxonMobil is committed to a major long-term research and development program aimed at developing algae as a viable fuel source. Unlike other biofuel sources such as corn and sugar cane, algae do not compete with our food supply. And because they consume CO₂, algae could help reduce greenhouse gas emissions.

ExxonMobil is partnering with Synthetic Genomics, Inc., pioneers in biotechnology, on this groundbreaking research effort. Our goal is to produce biofuels from algae in the future to supplement the fuels we use in our vehicles today, while reducing greenhouse gas emissions. Algae have never looked so inviting.

exxonmobil.com

Joe Wiseman,
Scientist









Pecuária


Farmacêuticas

Energia

Medicina

Seguro

Real Estate



0.2 % GDP CR
11% Emprego
21% GDP

**Não é necessário
mudar...**

**A sobrevivência não
é obrigatória.**

W. Edwards Deming

Juan Enriquez

Excel Venture Management

jenriquez@excelvm.com



O FUTURO E VOCÊ

Como a genética está mudando sua vida, seu trabalho e seu dinheiro

"Além do [mundo] digital está a genômica. Depois de ler *O Futuro e você*, proposições em princípio chocantes, passam para o lado do bom senso. Juan Enriquez mudará o seu ponto de vista sobre a própria mudança."

Nicholas Negroponte, autor de "Being Digital"

JUAN ENRIQUEZ

**NEGÓCIO
EDITORA**

¿ Existe modelo a seguir ?

India...



SHUKATH
General Secretary KCDC MD

July 2006

Astin Town Block Congress Committee M.D.

SHUKATH
General Secretary KCDC MD

July 2006

Astin Town Block Congress Committee M.D.

SHUKATH
General Secretary KCDC MD

July 2006

Astin Town Block Congress Committee M.D.

Best Wishes

65th Happy Birthday

Dynamic Leader

President - KPCC

Karnataka Pradesh Congress Committee MD

Best Wishes

65th Happy Birthday

Dynamic Leader

President - KPCC

On Friday 21 July 2006

SHUKATH
General Secretary KCDC MD

Astin Town Block Congress Committee M.D.

SHUKATH
General Secretary KCDC MD

Astin Town Block Congress Committee M.D.







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COMPUTER Casing
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A NU-LOOK Restaurant

el's FEAST

The Family Restaurant

20



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Pineapple Juice
Rs 5/-

angel's FEAST
VEG. MOMO



Menu board for 'angel's FEAST' listing various food items and prices.



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